## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 23 December 2004 (23.12.2004)

PCT

## (10) International Publication Number WO 2004/111519 A1

(51) International Patent Classification<sup>7</sup>:

F16L 53/00

(21) International Application Number:

PCT/NO2004/000177

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language:

Norwegian

(26) Publication Language:

English

(30) Priority Data:

20032775

18 June 2003 (18.06.2003) NO

- (71) Applicant (for all designated States except US): STATOIL ASA [NO/NO]; N-4035 Stavanger (NO).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KINNARI, Keijo, J. [NO/NO]; Myklaberglia 24, N-4050 Sola (NO). MORIS-BAK LUND, Kjell [NO/NO]; Grasheibakken 9, N-4034 Stavanger (NO). BØRNES, Atle, Harald [NO/NO]; Lillehatten 298, N-5148 Fyllingsdalen (NO). LABES-CARRIER, Catherine [FR/NO]; Rappveien 28, N-4041 Hafrsfjord (NO).
- (74) Agent: TANDBERGS PATENTKONTOR AS; Boks 7085, N-0306 Oslo (NO).

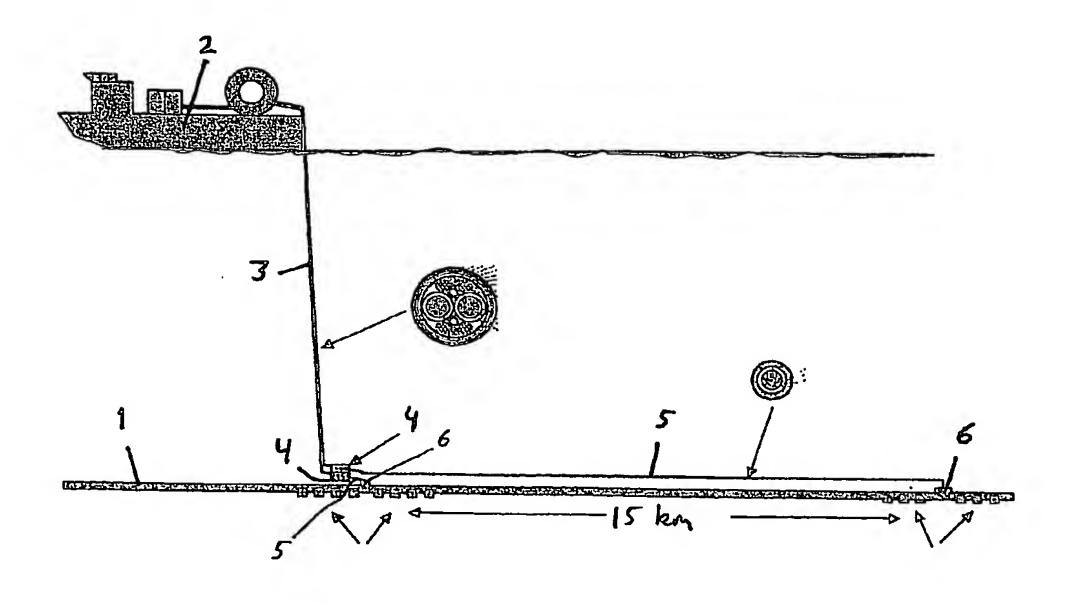
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR DIRECT ELECTRIC HEATING OF A PIPELINE



(57) Abstract: Method and system for direct electric heating of a pipeline to contribute to removal or hindrance of plugs of ice and optionally hydrates, distinguished in that heating takes place to a temperature above the ice melting point, but below the hydrate melting point.

## 

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.